

## ABSTRACT OF THE DISCLOSURE

The present invention provides a surface wave acoustic element which has a large surface acoustic wave propagation velocity and can be used in high-frequency regions by using a hard layer other than diamond which has inferior surface flatness. This surface acoustic wave element has a sapphire single crystal substrate, a hard layer formed on the sapphire single crystal substrate and having a composition containing  $(Al_{1-x}M1_x)_2O_3$  ( $0 \leq x \leq 0.5$ ) in which at least one element M1 (M1 = B, Ga, In, Ti, V, Cr, Mn, Fe, Co) is added to sapphire, and a piezoelectric layer formed on the hard layer.

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